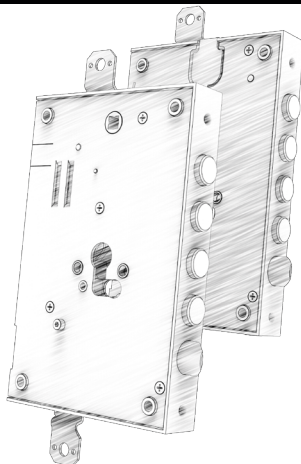
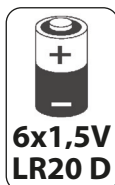
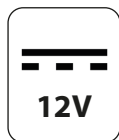


# BLUETOOTH ELECTROMECHANICAL LOCK INSTALLATION AND USE MANUAL

BT.P571... BT.P771...  
BT.H571... BT.H771...



## GENERAL INSTRUCTIONS

This manual is intended for technically qualified and trained installers.

Mottura Serrature di Sicurezza S.p.A. thanks you for choosing this product and reminds you:

- To read these instructions very carefully before installing this product and before doing any maintenance.
- That all assembly and connection procedures must follow good practice procedures and comply with current laws and standards.
- To NOT install this product in explosive rooms or atmospheres or in the presence of inflammable fumes/gases.
- DO NOT install this product on a door with risk of contact with water or atmospheric agents unless the door is adequately protected.
- To switch off the power supply and disconnect all live parts before doing any installation or maintenance work on the product. To take all possible precautions to eliminate the risk of electrical shock when performing installation or maintenance procedures described in this manual.
- That the installer must deliver these instructions and all of the maintenance instructions to the user.
- To keep these instructions for future reference and attach the sales receipt to validate the warranty.
- To contact authorized dealers only in case of problems.

Mottura Serrature di Sicurezza S.p.A. may change the characteristics of the products described in these instructions at any time and without notice.

## WARRANTY TERMS

This product has been inspected by Mottura Serrature di Sicurezza S.p.A. and is guaranteed to be free of all manufacturing defects for the time specified by current Italian law, starting on the date of purchase indicated on the sales receipt. The warranty is in force if the sales receipt, showing details identifying the product, is exhibited to customer service personnel. The warranty covers the replacement or repair of parts found defective at origin due to manufacturing defects. Costs of shipping to and from service centres will be paid by the customer. In case of repeated malfunctions of the same type or unrepairable defects, Mottura Serrature di Sicurezza S.p.A. may, at its own discretion, replace the entire product.

The warranty on the replaced product will continue until expiration of the original warranty. If service work must be performed at the customer's premises, the customer shall – if requested – pay the authorised technical personnel travel expenses.

Risks related to product transportation shall be covered by the customer when shipped directly by the customer, and by the authorised technician when the product is picked up and shipped by the technician

## LIMITS OF LIABILITY

The warranty does not cover damage deriving from:

- Negligence, carelessness or use in a manner not described in these instructions
  - Failure to protect the device before doing any procedure that may generate scrap or waste (welding, drilling of panels, drilling of structure, etc.) that prevents its correct functioning
  - Maintenance performed in any manner not described in these instructions or by unauthorised personnel
  - Transport without the necessary precautions and from any circumstances that cannot be attributed to manufacturing defects.
- In addition, Mottura Serrature di Sicurezza S.p.A. declines all liability for any damage to persons or property deriving from failure to observe all of the precautions described herein.

**N.B. : All electrical connections and mounting operations as well as subsequent service operations must be performed with the product DISCONNECTED from the power supply system.**



safeguarding your security

MADE  
IN  
ITALY

**WARNINGS**

The device contains a short-range radio frequency transmitter in the 2402÷2480 MHz frequency band and uses Bluetooth Low Energy (BLE) technology. Transmit power: 0dBm. Restrictions on use: None. The permitted European band is included in the ERC/REC 70-03 document as band b) of Annex 3: WIDEBAND DATA TRANSMISSION SYSTEMS. There are no restrictions for use in EU+EFTA countries for this band. Product compliant with the RED Directive 2014/53/EU.



**DoC completa:** <https://www.mottura.it/it/download/certificazioni/doc>

It is recommended to carry out the installation without batteries on board and without the mains power cable connected.

**POWER WARNINGS**

The lock can be powered by the mains, by a 12 V direct current power supply, or by 9 V batteries. **Any electrical connection to the lock must be made without power supply.**



**MAINS POWER SUPPLY:** Mottura code 99.798, or equivalent, output voltage 12 V direct current, power not less than 40 W, current not less than 3 A; the device must be CE marked and must necessarily comply with the current regulations on electromagnetic compatibility, electrical safety and environmental safety. The power and current indicated are necessary only for the correct functioning of the lock; in the case of powering additional peripherals in combination with the lock, it will also be necessary to consider the relative absorbed power.

**BATTERY POWERED:** Battery holder (99.704) with six "D" type cells (LR20) 1.5 V alkaline (non-rechargeable) for a total of 9 V, to be mounted on the door edge in a suitable and convenient position for battery replacement. Do not use rechargeable batteries, they cannot be managed directly by the lock.

**INSTALLATION WARNINGS**

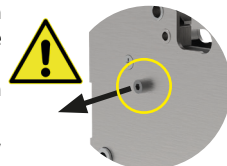
The vertical fixing position is binding for correct operation. Mounting and using the lock in different positions could compromise its correct functionality.

Protect the lock before carrying out any operation on the door that could generate waste material (welding, drilling panels, drilling structures, etc.) which, by entering the lock, could prevent it from functioning correctly.

**Once installation is complete, be sure to remove the screw (2 screws, one on each side in the version with BT.P... knob) located on the lock under the entrance of the European profile cylinder, before activating the electromagnet.**

**The screw, if inserted, deactivates the electromagnet block, preventing the rods from being blocked by the internal electromagnet.**

**Once removed, the screw will ACTIVATE the rod block by the internal electromagnet, and can no longer be inserted at a later time.**



Pursuant to article 26 of Italian Legislative Decree no. 49 of 14 March 2014 "Implementation of EU Directive 2012/19 concerning waste electrical and electronic equipment (WEEE)" and article 9 of Italian Legislative Decree no. 188 of 20 November 2008 "Implementation of EC Directive 2006/66 on batteries and accumulators and waste batteries and accumulators" adequate waste sorting for subsequent sending of disposed equipment to recycling, treatment and environmentally compatible disposal contributes to avoiding possible negative effects on the environment and human health and promotes reuse and/or recycling of the materials composing the equipment.

Unlawful disposal of the product by the user may result in the application of penalties pursuant to current laws and regulations on the matter. We remind that batteries and power adapters, if present, must be removed before the device is disposed. Batteries and adapters must be collected and separately disposed.



## VERSIONS

### HANDLE VERSION (BT.H...)

Non-reversible lock, consisting of a split handle square with the function, on the internal part, of quick release always engaged by rotating the handle downwards, and of blocking/rearming by rotating the handle upwards. In the EXTERNAL PART the functions are the same, except that the quick release is managed by the electromagnet. When the electromagnet is blocked it is not possible to rotate the handle to open.

### KNOB VERSION (BT.P...)

Reversible lock, with quick release on the inside by turning the handle downwards, on the OUTSIDE there is a manganese plate to protect the handle frame. The internal electromagnet acts by blocking the sliding of the rods, preventing the rotation of the cylinder/knob.



## SYMBOLS LEGEND

1	SPLIT handle frame: EXTERNAL SIDE Quick release on command INTERNAL SIDE Quick release always active	5	Power input
2	Manganese plate to protect the handle frame (see page 5)	6	Clean contact input + Lock status output
3	Manganese plate locking screw	7	Screw for exclusion of electromechanical locking system (see page 2)
4	Bluetooth Module	8	RESET button

## INSTALLATION

Fix the lock to the door structure using all the appropriate fixings: side attachments (A), bushings (B) (Fig.1). The vertical fixing position is binding for correct operation. Mounting and using the lock in different positions could compromise its correct functionality. For the lock to function correctly, the latch must be able to come out freely without encountering friction both with the door open and closed.

If necessary, provide holes in the door structure to accommodate the battery holder in a non-binding position, determined only by the length of the connection cables and the internal dimensions due to the door configuration (deviators, etc.). When mounting deviators, always ensure that there is play between the rod and the top-bottom both with the lock open and with the lock closed: this is to avoid creating direct tensions that could damage its correct operation. Fix, if applicable, the chosen battery holder and make the electrical connections as indicated in the following paragraphs.

Protect the lock before carrying out any operation on the door that could generate waste material (welding, drilling panels, drilling structures, etc.) that, by entering the lock, could prevent it from working properly. Do not insert the batteries into the battery holder until the fixing is complete, to avoid short circuits that could damage the system. **WARNING!** With the door fully assembled and all its positioning adjustments completed, carry out the first testing operations on the lock (opening/closing) in mechanical mode to check that there is no friction on the levers (rods/switches) and on the key during rotation.

Such problems could compromise the correct electronic functioning of the lock, causing irreversible anomalies. Mottura Serrature di Sicurezza S.p.A. declines all responsibility for failure to comply with this procedure, thereby voiding any type of product warranty.

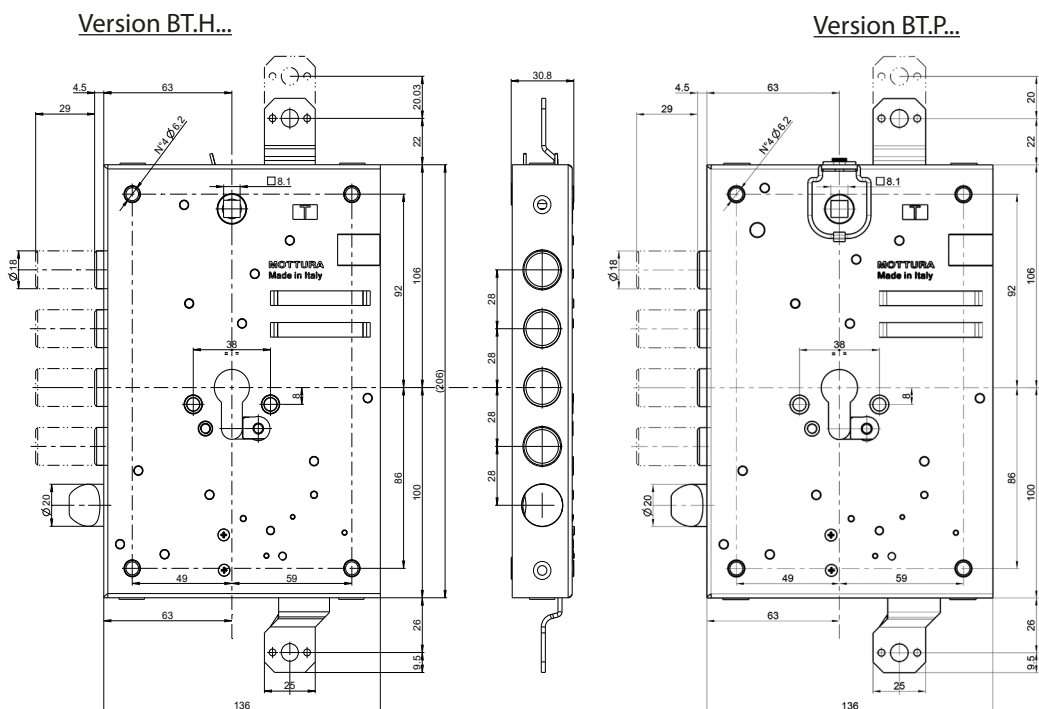
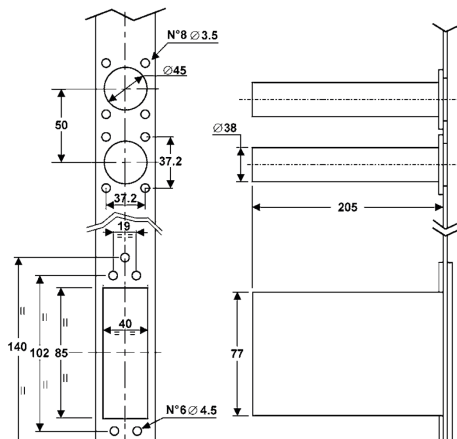


Fig.1

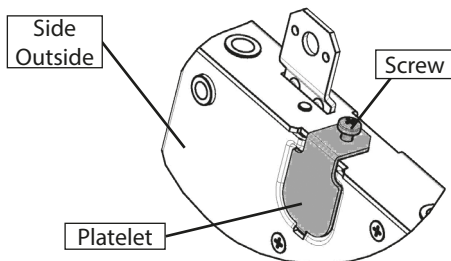
## DRILLING DIAGRAM AND BATTERY HOLDER DIMENSIONS



## PLATE POSITIONING HANDLE FRAME PROTECTION

### QUICK UNLOCK (CODE BT.P...)

The quick release lock version provides for the opening of the bolts by operating the handle. For correct installation, the locking plate must be fixed to the lock from the outside, centering it in the appropriate recess and tightening the M4 screw provided.



## POWER SUPPLY

Before applying power and/or placing batteries in their compartments, make all connections and make sure that no wiring errors have been made.



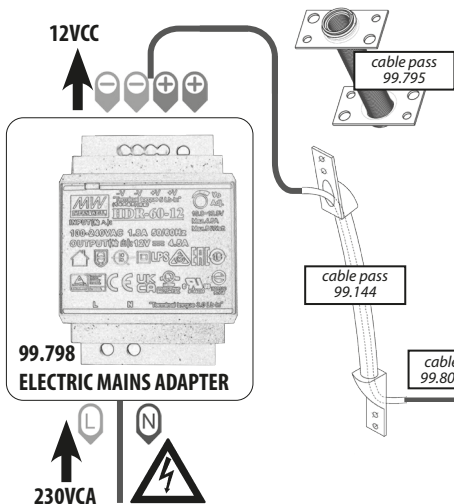
Depending on the type of need, the bBLOCK lock can offer 2 different power supply options:

### POWER SUPPLY (WITH POWER SUPPLY)

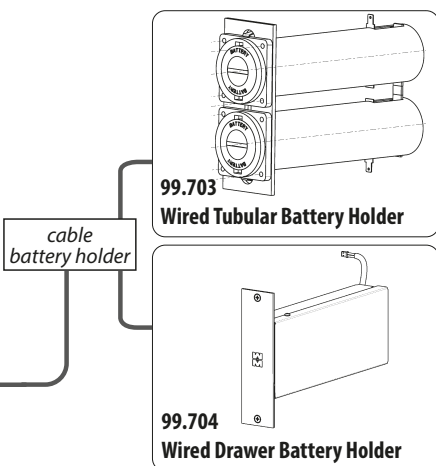
**N.B.** The lock can be powered by both types connected together via the adapter  
art.99B0001004

### ALKALINE BATTERIES (NON-RECHARGEABLE)

#### WIRING NETWORK version



#### WIRING BATTERY version



## MAINS POWER SUPPLY INSTALLATION (99.798)



*Have the connections carried out by competent technical personnel in compliance with the current regulations on electrical safety and according to the rules of Good Practice.*

The power supply must be placed near the door and outside it; the 99.801 cable must be passed through a cable gland of appropriate size (Mottura 99.144 or equivalent).

The cable length is 4 m; it is not recommended to use longer cables or make joints. If these operations are absolutely essential, it is recommended not to exceed the length and to use a section of no less than 1.5 mm<sup>2</sup>. A cable length greater than 4 m or inappropriate joints could cause the lock to malfunction in the event of strain during maneuvers.

### ELECTRICAL CONNECTION MAINS ADAPTER

The non-terminated part of cable 99.801 must be connected to the output screw terminal block, marked -V and + V, of power supply 99.798 (or equivalent), respecting the polarity: red = positive, black = negative.

The 230 V domestic network must be connected to the input terminal block of the power supply using standard conductors with adequate characteristics, dimensions and colors, in the absence of voltage. The network input must also be protected by special devices, compliant with current regulations on electrical safety.

POWER SUPPLY INPUT	VOLTAGE / FREQUENCY	100 ÷ 240 Vac 1,8 A max 50/60 Hz
	OPERATING TEMPERATURE	Min -30 °C ÷ Max.+70 °C
EXIT	VOLTAGE	12 Vdc 4,5 A max
	POWER	54W
MECHANICS	WEIGHT	190 g
	DIMENSIONS	(L x P x H) 53 x 94 x 60 mm
IMPORTANT	Always protect the input (electrical system side) with a fuse or magnetic switch of adequate capacity. To prevent cases of overheating or fire, always use cables of adequate section.	

### MECHANICAL FIXING

The box can be hooked onto a DIN EN 60715 rail (not supplied) and snapped into place (black hook facing downwards). To unlock it, simply pull the black hook downwards using a flat screwdriver.

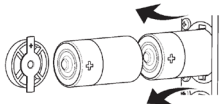
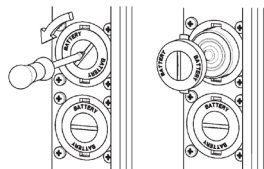


## BATTERY POWERED INSTALLATION

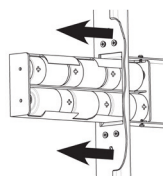
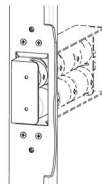
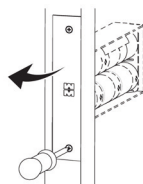
To power the battery lock, insert the battery drawer cable 99.704/703 into the appropriate three-pole connector. The battery drawer must be placed inside the door (see diagram on page 5). The length of the cable is 1.8 m; it is not advisable to use longer cables or make joints.

### REPLACING THE BATTERIES

#### DOUBLE TUBE VERSION (Art. 99.703)



#### DRAWER VERSION (Art. 99.704)



Failure to replace the batteries may also cause the formation and leakage of oxide and corrosive liquids, which are highly damaging to the battery holder, connections and door. Never use rechargeable batteries. Doing so will compromise the operation of the lock.

**!WARNING!:** Exhausted batteries are harmful to the environment, follow the disposal procedure as indicated by the legislation on PAGE 2

## THE LOCK

Electromechanical lock with integrated rod locking system, manageable via Bluetooth connection with dedicated bMOTTURA app or via cable using the clean contact output. The electromagnet in both versions of the lock intervenes by blocking the rods, consequently depending on the version it will block the rotation of the handle frame (Version BT.H...) or of the cylinder (Version BT.P...)

## GESTIONE DELLA SERRATURA TRAMITE APP bMOTTURA



To manage this device, you will need to use the bMOTTURA APP. All programming and management of Mottura bTECHNOLOGY BLE products is controlled directly via the Mottura application, with guided procedures during the various steps of programming the new devices.

**ACCESS CONTROL management is integrated within the App.**



scan the qr code to  
download the app



## CONNECTING CONTROL DEVICES

### REMOTE CONTROL

To unlock the lock using an external wired command, connect the 99.802 cable to the appropriate four-pole connector. **The cable is made up of 4 coloured conductors:**



### 1 - LOCK STATUS OUTPUT

When NOT safely closed, the lock supplies DC voltage to the RED(+) and BLACK(-) terminals of cable 99.802. The voltage supplied depends on the type of power supply to the lock: 12V DC if mains powered, 9V DC if battery powered, less than 9V if the batteries used are not fully charged.

**WARNING:** The voltage supplied by the lock for status return is the same as the lock supply voltage. Consequently, in the case of battery power supply, the current absorption due to status detection affects the battery life.

**Comando Remoto  
+ Output stato  
Serratura**

Alimentazione



### 2 - UNLOCK VIA CABLE

It is possible to activate the lock release via cable by connecting a normally open contact (button, relay, etc.) to the BROWN and WHITE poles of cable 99.802.


**THE UNMARKED PART MUST BE CONNECTED ACCORDING TO THE DIAGRAM**



RESET BUTTON

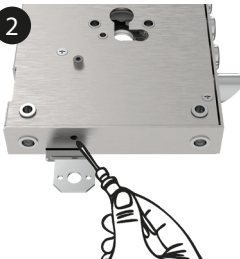
!ATTENTION! This function can also be performed via the bMOTTURA app

1




Remove power cable from lock

2




Press and hold the RESET button with a screwdriver

3



Connect the power cord while holding down the RESET button

4



Positive outcome indicated by 5 long beeps.

NOTES ON USING THE CYLINDER

HANDLE VERSION (BT.H...)

In this version, its use has been designed exclusively as an emergency release. In the event of any electrical problems, it will be possible to release the manual operation of the bolts managed by the handle panel (with quick release) via the cylinder.

KNOB VERSION (BT.P...)





The use of the cylinder is managed exclusively by the electromagnet block. With the electric block active, it will not be possible to perform the throws for opening the bolts from the outside, while internally, in the event of an electrical failure, it will be possible to unlock the lock by operating the handle panel, configured for quick release.

**IMPORTANT:** If, despite all checks, the lock should show anomalies, it is always advisable to contact the technical assistance service, or request the intervention of a specialized technician from an authorized Mottura center. It is in no way advisable to carry out technical interventions on the product yourself, without the necessary knowledge of the parts that compose it. Please remember that repair or maintenance interventions carried out by unauthorized personnel, in addition to immediately invalidating any type of warranty, can cause irreversible damage to the entire mechanical and/or electronic system. Even more so, on the mains-powered versions (230 Vac), given the greater danger, it is essential to request the intervention of qualified personnel authorized to work on electrical systems, who must comply with all current regulations on electrical safety.

Mottura Serrature di Sicurezza S.p.A. declines all responsibility for any type of malfunction, anomaly and damage to persons or things due to failure to comply with the previous regulations.



For correct disposal, check the provisions of your municipality

PACKAGING DISPOSAL			
 20 PAP	 22 PAP	 6 PS	 04 LDPE
Outer packaging PAPER	Paper documents PAPER	Internal polystyrene pack PLASTIC	Inner envelopes PLASTIC



safeguarding your security

COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001 • ISO 45001